

Foley: 'Plenty of Work, Plenty of Challenge'

Sailors call him Sir. His close friends call him Bob. The rest of us call him Admiral Foley.

Whatever he's called, Admiral Sylvester Robert Foley (U.S. Navy, Ret.) today resigns his post as Assistant Secretary of Energy for Defense Programs (DP). During his last official visit to Sandia two weeks ago, LAB NEWS talked with him about his accomplishments during his 18 months as head of DP, his view of Sandia, and the future of the nuclear weapons program.

Foley feels some pride in having established a better planning process, one designed to carry DP into the future. That process grew out of visits early in his tenure to every part of the Nuclear Weapon Complex and his subsequent, and sobering, realization that "Some of our key facilities are aging — and not well. I came away with a feeling of fragility. We need both funding and attention focused on the problem."

Foley has continued his attention to the fragility problem well beyond that initial series of visits. One recent study projects the Complex's facility needs to the year 2000, and a current study does the same for R&D capabilities. When upcoming environmental, safety, and health concerns (see "Foley Faces Future" section below) are added to the two studies, DOE planners should have a framework for decision-making that will serve well into the next century, according to Foley.

"Our Number One priority has to be to make the Complex more robust," Foley continues. "We may need to close some old, outdated facilities and build some new ones. Perhaps we need a smaller, but more efficient, Complex."

"Our studies will help to answer questions like that," he points out. "If I'm leaving a legacy, it's this framework for 2000, which DOE can take to Congress as a game plan, a conscious goal."

On looking back, Foley expresses greatest pride at the relationships he's built: "It's the people I'll miss when I'm gone — in the labs and production agencies, at Headquarters, throughout the DOE."

"I've also learned that the strengths of DOE lie in the field — Headquarters, *per se*, is not DOE," he continues. "There is vigor, there is enthusiasm in the field. And we need candor, good dialogue among our operations offices, our labs and other facilities, and Headquarters. I believe that dialogue has improved over the past 18 months; I'm even tempted to believe it's now in the 'good' range — though we still need to make further improvements."

"But I don't want to claim credit for the progress made while I've headed DP — it's certainly not a one-man show."

Foley's View of Sandia

Admiral Foley was impressed by Sandia long before he earned his current rank or accepted his current post. "It was 1953, I was a Navy pilot, and I came here for a course in weapon delivery," he recalls. "I recognized then that not all the expertise in delivery systems was held by those of us in the military. And it's comforting for pilots and others to see the people who are creating the things the military is using — it's very satisfying."

"I've been involved with Sandia off and on since then," he continues. "And throughout that time, I've continued to notice, and see developed, the reputation of Sandia: The name 'Sandia' has come to mean 'quality' — it represents the best in supporting the military."

"Yes, Sandia has a reputation for quality, and I don't use the term lightly — not all organizations in the DOE and DoD create quality."

"Lately, of course, I've been heavily involved with Sandia, and that's been satisfying all over again," he goes on. "You know, I used to be able to get a feel for a new ship just by how its people walked, how they spoke. At Sandia, people walk tall, they speak with enthusiasm, and they want others to



STRIDING TOWARD RETIREMENT from his current post, Admiral Foley (center) is flanked by (from left) John Holovka (9111), Roger Hagengruber (9000), Paul Stokes (9110), and Arlyn Blackwell (400). Today is Foley's last as Assistant Secretary of Energy for Defense Programs. Nearly 60 percent of Sandia's total operating budget for the year comes through Defense Programs. Foley plans to enter the private sector after leaving DOE Headquarters.

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share that enthusiasm. They reflect pride in the Labs. That's really impressive.

"And, yes, I think Sandia is sized about right — small enough to respond quickly, if necessary, to the nation's needs, but large enough to stay on the cutting edge of technology," says Foley. "Remember that your basic role — to help create a credible deterrent — won't change even if the U.S. signs a new arms control agreement, even if new limits are placed on testing."

"Nuclear deterrence will remain the foundation of national security. Yes, the current relationship with the triad [ground-, sea-, and air-launched systems] may shift, but you [Sandia] have to keep on doing your work with nuclear weapons."

"Whatever the shifts, the key is to focus on your original, and fundamental, mission — to ask yourselves, 'What was Sandia created for in the first place?'"

Foley Faces Future

The Admiral notes that, for DOE in general, several non-technical issues lie ahead: drug testing, personnel reliability (which depends primarily on the reinvestigations conducted to keep a Q-clearance), standards and criteria for security and safeguards (which are designed to meet threats by adversaries outside and, conceivably, inside the Labs), and environmental safety and health (ES&H) concerns.

"ES&H will be a major burden for all of us," Foley predicts. "In the short term, site cleanup dollars have to continue to come from program dollars."

"In the long term, Congress will have to come to grips with the enormity of the problem and create a special cleanup fund so we won't be forced to use all our program dollars solving ES&H problems."

"Remember, we are committed not to make the same mistakes we and our predecessors have made in the past," Foley notes. "And that's going to make our job just a little more difficult."

Then there's the technical side: "If we succeed in arms control, reducing the number of nuclear weapons, then the impetus must be to design new weapons, to protect the stockpile as a state-of-the-art deterrent," Foley states. "Why? Because the need for weapons tailored for a specific role will remain; in fact, the need will increase. Yes, there may well be a role for smart ACMs [advanced conventional

(Continued on Page Five)

A Visit to Shady Haven



See Page Six

Antojitos

For New Hires Who Want to Climb the Executive Ladder (Also for outsiders, and retirees with short memories, who would like to understand the intricacies of Sandia's organization numbering system) Here's what you have to remember: Generally, you're moving up if you're adding more zeros but decreasing the number of digits; the latter overrides the former. The table will clarify the matter:

No. of Zeros	Number of Digits				
	1	2	3	4	5
0	Pres		Div Sup	Div/Sec Sup	Sec Sup
1		Exec VP	Dept Mgr	Dept Mgr	
2			Dir	Dir	
3				VP	

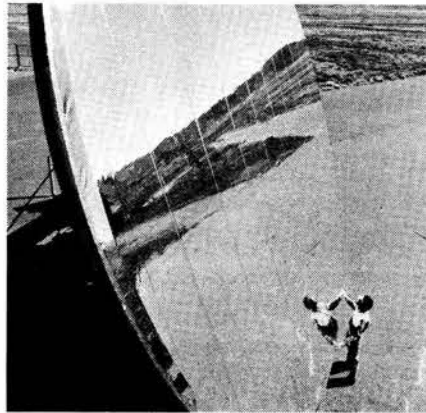
(I, naturally, love this organizational chart -- it's the only one that puts me and other first-line supervisors on the same line as President Welber.)

At any rate, new hire, the key is to collect zeros until you have three, then try to get rid of them -- and digits -- until again you don't have any zeros but are left with just one digit.

A recent cartoon caption puts it this way: "I'm just a number here, like you, Caswell -- but a higher number." As the above indicates, it wasn't Sandia the cartoonist had in mind.

* * *

Reflect on This Public Information Division 3161 sent out this heliostat photo (which we ran in our June 5 issue) to, among others, New Scientist. NS ran the photo but superimposed above Dan Alpert's (6226) head a balloon saying, "Boy, do I need a shave!"



* * *

VP Hero of the Year Thus Far: Venkatesh Narayanamurti, who, in the laudable tradition of his predecessor, Glenn Fowler, has brought all of 1000 together in the Technology Transfer Center to share his philosophy of R&D management and to encourage his troops to continue their innovative research.

* * *

Cheapskate of the Year Thus Far: The Sandian who bought a 25-cent bike map of Albuquerque (proceeds to the South 14 Village Project) and paid for it with a Mexican 50-cent piece. Let's see, if my arithmetic is right, at 1389 pesos per dollar, that coin is worth about 1/28th of a cent. ●BH

* * *

Boss During Performance Review: "But if I treat you fairly, then I'll have to treat everyone else fairly." (Note: This is an apochryphal story -- in fact, it's a cartoon caption; it is not a Sandia boss.) (Really!)

Welcome To Livermore

Livermore

Carla Mertins (8022)

Altadena

David Dandy (8363)

Fremont

Toff Garcia (8263)

Manteca

Ellen Law (8022)

Modesto

Dan Golling (8413)

Pleasanton

Jim Arnold (8184)

Redwood City

Tony DeSousa (8184)

Tracy

Cheryl Lawrence (8316)

Beatrice Wheelock (8022)

Vallejo

Scott Hatchett (8413)

Walnut Creek

Loren Moyer (8184)

Arizona

Vincent Hindman (8153)

New York

Alan Pomplun (8186)

Oregon

Curt Nilsen (8164)

Don Riley (8162)

Pennsylvania

Steven Goettler (8186)

James Smith (8183)

Texas

Mark Kimmel (8354)

George Wilkerson (8353)

John Schroeder (8362)

Utah

Tony Bentley (8184)

Brian Maxwell (8023)

Tracy Walker (8274)

Washington

Todd Garlick (8444)

Brad Mickelsen (8154)

Laneen Stewart (8022)

Congratulations

To Julie and Frank (8234) Bielecki, a son, Anthony Michael, July 10.

LAB NEWS

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RICK WAYNE (8400) was one of the speakers at Sandia's recent Professional Secretarial Seminar at the Pleasanton Hilton; his subject was "The Interview Experience." Other speakers included Ann Hogan (8265) on "How to Communicate Effectively at All Levels"; Jeff Manchester (8026) on "When Personal Problems Occur"; Paul Brewer (8250), Carol DeWolf (8150), and Sheryl Johnson (8161) on "Interviewing"; and color analyst Pat Ackerman on "One's Personal Professional Image at Work." The all-day seminar for secretaries was organized by the Sandia Secretarial Committee -- Evelyn Baca (8182), Pat Brennan (8244), Rolanda Bailey (8362), and June Winter (8462).

For Jim Rego, There's Only One Ketch

If it had rained in Livermore for the 40 days and 40 nights ending July 14, at least one Sandian would have survived — Jim Rego (8315), who had a 55-foot, 21-ton, oceangoing yacht all ready to launch in his backyard.

But, unlike Noah, Jim didn't have pairs of animals lined up to go on board; in fact, he had the yard cleared so a crane could pluck *Velero* (Spanish for "sailboat") from his yard and load it onto a flat-bed truck for a ride 30 miles to Stockton where it is now afloat on the Delta waterway.

The move culminated 12 years of loving labor; Jim began it when he bought a partially completed hull from a friend and moved it to his backyard. Through the years, he has devoted several weeknights and at least one full weekend a month to his retirement dream. This past year he accelerated his efforts, devoting all his weekends and vacation time to complete it in time for the midsummer launching.

A patient craftsman, Jim did nearly everything himself, following a set of plans but adding extra touches that give the vessel greater safety, more comfort, and higher quality. "I spent two years just hand-sanding the hull, putting layers of resin on it, and making sure it would come out just right," Jim explains.

Pouring the ballast was the only work heavy enough to require additional help from friends. The ballast is a mixture of cement and steel powder — 450 lbs. per cubic foot, or 13,000 lbs. in all. That's more than his plans called for, but it gives the boat a lower center of gravity, making it more stable for the ocean voyages Jim and wife Jo Ann (an LLNL employee) plan for the next few years.

Rigging It Just Right

Velero is a full-keel yacht, more precisely, a ketch rig, which means it has two masts. Jim is still putting finishing touches on the 48-ft. 10-in. main mast and the 40-ft. mizzen (aft) mast in his backyard. After he completes the rigging work on the masts, he will order custom-made sails.

Jim installed an 80-hp diesel engine and a 160-gal. fuel tank that could carry the Regos 1000 miles if they ever run out of wind. The engine is located midship so it required 17 feet of driveshaft to reach the 20-in.-dia. propeller. For anchoring he bought a



BOATBUILDER Jim Rego makes final preparations to move his dream boat, *Velero* (Spanish for "sailboat"), from his back yard. (Photos courtesy of Diana Vallario—*The Herald*)



NEIGHBORS WATCH as the 21-ton vessel is lifted from Jim Rego's (8315) yard on Madeira Way in Livermore to a waiting flatbed truck for the trip to Stockton and the Delta.

45-lb. plow-design anchor and 400 feet of high-test steel chain.

The boat has two steering stations, one topside and one below deck; the latter has an automatic pilot. This device uses a compass to lock onto a steady course regardless of wind and current.

Also below deck are staterooms that can sleep seven people comfortably, a galley with stove and refrigerator, a shower and toilet complete with a chemical waste treatment system, upholstered cabin furniture (Jo Ann's handiwork), and 275 gallons of fresh water.

13-Porthole Apartment

Velero also carries a generator that operates appliances, including a clothes washer, by towing a propeller while under way, or by hooking up to a wind-driven rotor on the mast while in port. Jim even included a television with VCR: "You have to have some kind of entertainment for those long nights at sea."

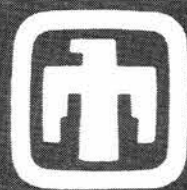
All in all, *Velero's* interior resembles a com-

fortable studio apartment, but with 13 portholes instead of sliding glass windows. The hand-rubbed mahogany, painted birch plywood, and polished teak flooring are all custom-tailored to the curved shape of the boat. "There's not a square corner anywhere like you'd find in a house," Jim laments, "so everything had to be carefully crafted to fit the curvatures."

Jim has been interested in sailing for 28 years, but these days he knows a lot more about ocean adventures — he crewed aboard Cal Loveless's (ret.) sailboat on a 17-day trip to the Hawaiian islands two years ago.

In about two years (after retirement and after their son graduates from high school), the Regos plan to sail down the coast toward Mexico, eventually going through the Panama Canal and — if their son ends up in college there — up the Eastern seaboard. A crew of five would be ideal for such a journey, Jim notes.

Jim's great dream — a luxury yacht that can take the Regos to any port in the world, with or without the Great Flood — is becoming a reality.



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SANDIA'S TEAM captured the C-2 Slow Pitch softball championship in the Livermore Area Recreation & Park District league for the 1987 season. Shown with their trophy are (front row; non-Sandians without org. numbers) John Chavarria (8262), Tim Sage (8316), Frank Bielecki (8234), John Didlake (8165), Clint Greene, and Gary Foster (8271). Back row, Jim Calloway, Rich Delgado, Mike Ross, Dave Ross (8263), Dave Ruddle, Joe Damico (8435), David Rounds, and Jeff Moore (8262). Team members not present: Howard Foyer (8411) and Mike Chiesa (8241).

Take Note

Paul Peercy (1140) was appointed to the Solid State Sciences Committee of the National Research Council. The Council is the principal operating agency of the National Academy of Science and the National Academy of Engineering. Paul's term is from July 1, 1987, to July 1, 1990.

* * *

Ken Frazier (3161), author of *People of Chaco*, will give a talk at the Maxwell Museum of Anthropology on Aug. 25 at 7:30 p.m. Topics include discoveries made at Chaco in the past 10 years, Chacoan astronomy, roadway systems, and the relationship of Chacoan culture to modern Pueblo Indians.

* * *

Learn how to be an entrepreneur; start your own business. UNM will again offer Entrepreneurial Engineering (ME456) in the fall semester. Sandians with backgrounds in engineering or science who contemplate starting a business can bring to the class their ideas for possible businesses. The class may help to launch the venture. It meets on Wednesdays, beginning Aug. 26, from 6:30 to 9:30 p.m. in Woodward Hall, Rm. 138. Enrollment must be completed in the Student Services Building Registration Center (277-5548) by Aug. 28. Cost for the three-unit class is \$147. For more information, call Prof. Bill Gross on 277-6297.

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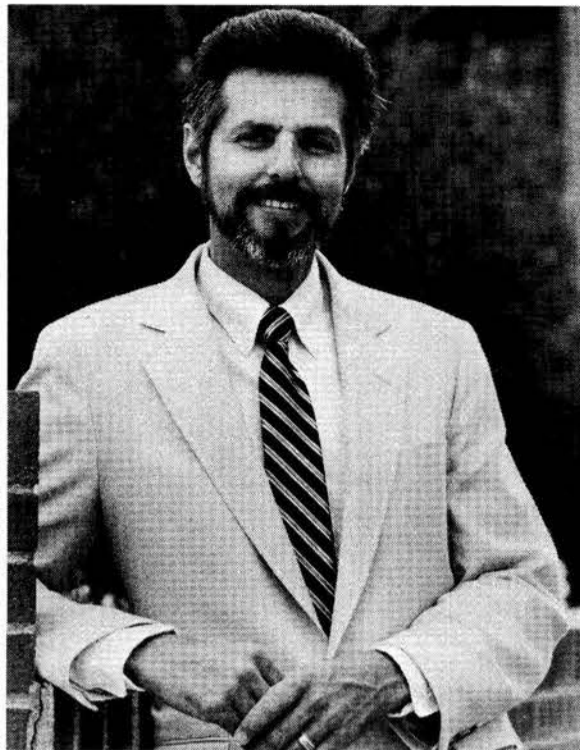
Help Bright Horizons prevent child abuse by attending a spaghetti/pizza dinner and auction benefit scheduled for Aug. 7 at 5:30 p.m. at the Fraternal Order of Police Lodge (5900 Kircher Rd. NE). Admission is \$10 donation per person. Reservations are required; call 268-KIDS or 268-5437.

* * *

Painters, furniture makers, jewelers, weavers, native plant crafters, leather crafters, and other artisans are participating in the Cleveland Roller Mill Arts and Crafts Festival scheduled for Aug. 8 & 9 from 10 a.m. to 5 p.m. at the Cleveland Roller Mill (two miles northwest of Mora, NM, just off NM State Rd. 3). The 4400-sq.-ft., renovated three-story mill is one of the few in the Southwest that have original mill works intact. It was operated until the late 40s and was placed on the National Register of Historic Places and the New Mexico Cultural Properties Register in 1979. Mill tours will be available during the festival. For more information, contact Daniel Cassidy at 1-387-2645.

* * *

The UNM School of Medicine's Division of Endocrinology and Metabolism seeks volunteers to participate in a Diabetes Control and Complications Trial (DCCT), sponsored by the National Institutes of Health. Medical scientists are trying to answer the question of whether the long-term complications of diabetes are a result of the disease itself or of excess glucose in the blood, which occurs even with proper treatment. Volunteer care includes monitor-



STEPHEN BACA (2854)

Supervisory Appointment

STEPHEN BACA to supervisor of Project Design Definition and Applications Software Development Division 2854, effective May 1.

Steve joined Sandia in November 1975 as a member of the Management Information Systems Department. He moved to the Design Engineering organization in 1979 and later was loaned to the Technical Library to oversee the installation of an IBM mainframe computer system. Steve joined Electronic Subsystems Department I in 1982, where he was Trident II (Mk5) Programmer project leader until his promotion.

He has a BS in computer science and an MS in electrical engineering and computer science, both from UNM, where he was a graduate fellow. Steve worked for two years at UNM as an engineering and science applications specialist before he joined Sandia. He is a member of IEEE and ACM.

In his spare time, Steve enjoys alpine skiing, backpacking, and golf. He and his wife Maureen (3523) also raise Arabian horses. They live in the Sandia foothills.

ing for early signs of the complications of diabetes and special education in diet, exercise, foot care, and other aspects of diabetes. The care is free, including insulin and other equipment. Volunteers must have had insulin-dependent diabetes for 15 years or less, be taking one or two insulin shots a day, and be 13 to 39 years old. For more information, contact UNM DCCT coordinator Joyce Rich at 277-1200 weekdays between 8 a.m. and 4:30 p.m.

Events Calendar

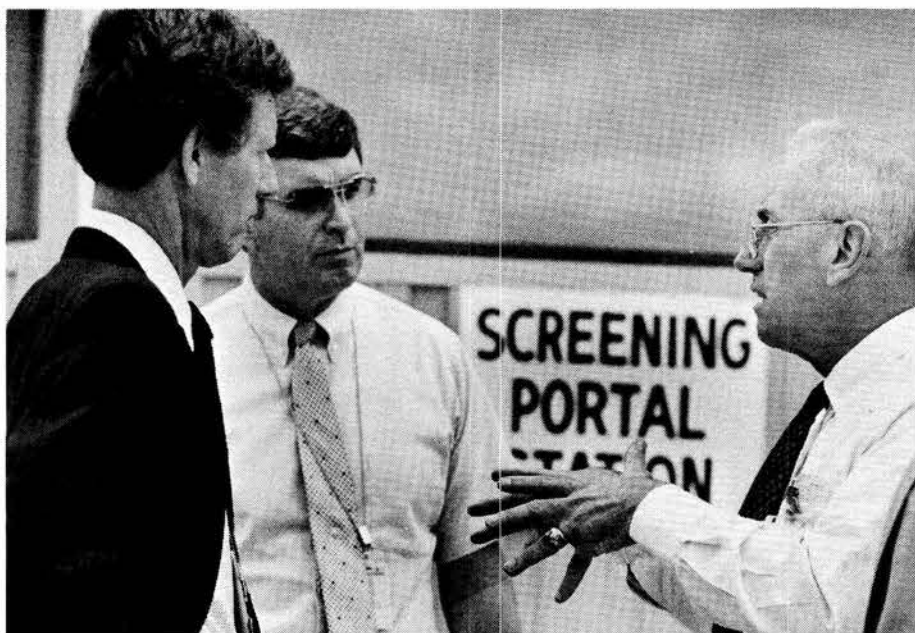
- July 31 — Local Songwriters Showcase, 8 p.m., KiMo Theatre, 243-3657.
- July 31-Aug. 2 — "Loot," farce by Joe Orton about criminal activity in England; 8 p.m., Vortex Theatre, 247-8600.
- July 31-Aug. 2 — Exhibit, "Mickey McConnell: A Personal View of the Ancient World"; Jonson Gallery (UNM), 277-4967.
- July 31-Aug. 2 — Focus Photo Series: Mary Peck, impressions of the Florida Everglades; Albuquerque Museum, 243-7255 or 242-4600.
- July 31-Aug. 2 — "Who Killed Don Jose?" (world premiere mystery by Rudolfo Anaya), La Compania de Teatro de Albuquerque; 8 p.m. Tues.-Sat., 2 p.m. Sun.; Menaul School (Menaul & Broadway NE), 242-7929.
- July 31-Aug. 8 — "Two by Two," musical by Richard Rodgers about Noah's Ark, presented by Albuquerque Civic Light Opera Assn.; 8:15 p.m. Fri.-Sat., 2:15 p.m. Sun.; Popejoy Hall, 345-6577 or 277-3121.
- July 31-Aug. 31 — Exhibit, "From the Center Place: Contemporary Zuni Pottery and Its Makers"; 9 a.m.-4 p.m. Mon.-Fri., 10 a.m.-4 p.m. Sat.; Maxwell Museum of Anthropology, 277-4404.
- Aug. 1 — Summerfest '87: Korean Night, 5-10 p.m., Civic Plaza, 768-3490.
- Aug. 1-12 — Exhibit, "Art Therapy in Bethel," shows how the German community of Bethel develops the potential of the handicapped; 9 a.m.-9 p.m. Mon.-Thurs., 9 a.m.-5:30 p.m. Fri. & Sat.; Main Albuquerque Public Library, 768-5112.
- Aug. 2 — Nuestra Señora de Los Angeles Feast Day: Old Pecos Bull Dance, Corn Dance; Jemez Pueblo, 834-7359.
- Aug. 2-16 — Exhibit, "The Classic," Western art; 1-5 p.m., Fine Arts Gallery, NM State Fairgrounds, free, 265-1791.
- Aug. 2-25 — Exhibit, paintings by Felix Vigil of Jemez Pueblo; 9 a.m.-6 p.m., Gallery, Indian Pueblo Cultural Center, 843-7270.
- Aug. 6-23 — "Flowers for Algernon," play by David Rogers based on the novel by Daniel Keyes; 8 p.m. Thurs.-Sat., 6 p.m. Sun.; Keystone Theatre (3211 Central NE), 255-6819.
- Aug. 7 — Concert IV, Santa Fe Desert Chorale performing madrigals by Monteverdi; 8 p.m., Keller Hall, 277-4402.
- Aug. 7 — "Crepuscular Tour," guided tours in small groups around the zoo after hours; 6:30-8:30 p.m., Rio Grande Zoological Park, 843-7413.
- Aug. 7-9 — Sandoval County Sheriff's Posse Rodeo, 7 p.m. (1 p.m. Sun.), Sandoval County Fairgrounds (Bernalillo), 898-7898.
- Aug. 7-23 — "Seascape," Edward Albee play; 8:30 p.m., Corrales Adobe Theatre, 898-3323.
- Aug. 8 — Summerfest '87: Scandinavian Night, 5-10 p.m., Civic Plaza, 768-3490.
- Aug. 8 — New Mexico State Body Building Championship; prejudging at 9:30 a.m., evening show at 7:30 p.m.; Albuquerque Convention Center, 294-1221.
- Aug. 9 — Sunday Jazz at Madrid: Bob Lah & Desert Winds, Melodious Thump, and the John Magaldi/Joan Steele Quintet; 3-7 p.m., Oscar Huber Memorial Ballpark (Madrid), 255-9798.
- Aug. 9 — Team Roping, 10 a.m.-4 p.m., Bernalillo County Sheriff's Posse Arena (Edith & El Pueblo Rd. NE), free, 898-7898.
- Aug. 9 — Arts in the Parks: Renaissance Fair, entertainment by the Society for Creative Anachronism, the Desert Winds Dancers, Musica Antigua de Albuquerque, and Elene Gusch; 2-4:30 p.m., Bataan Park (Lomas & Tulane NE), free.
- Aug. 10 — San Lorenzo Feast Day: Buffalo, Comanche, or Corn Dance, ceremonial foot races, pole climb, arts & crafts fair; Picuris Pueblo, 587-2519.
- Aug. 11 — Folktales of New Mexico, storyteller Judy Hatfield telling stories from New Mexico's history; 7:30 p.m., Maxwell Museum, 277-4404.
- Aug. 12 — Santa Clara Feast Day: Buffalo, Comanche, or Corn Dance; Santa Clara Pueblo, 843-7470.

AT&T Savings Plans

The following are the Earnings Factors for May 1987, for the AT&T Savings and Security Plan and the AT&T Savings Plan for Salaried Employees.

	Earnings Factors May
SPSE (Savings Plan for Salaried Employees)	
AT&T Shares	1.0619
Government Obligations	1.0016
Equity Portfolio	.9973
Guaranteed Interest Fund	1.0076
Diversified Telephone Portfolio Unrealized Appreciation	1.0167
Realized Appreciation	.0001*
SSP (Savings and Security Plan — Non-Salaried Employees)	
AT&T Shares	1.0620
Guaranteed Interest Fund	1.0080
Diversified Telephone Portfolio Unrealized Appreciation	1.0161
Realized Appreciation	.0002*

* The 1 has been removed from the earnings factor. Current month's DTP earnings may be calculated directly: Earnings Factor x DTP Current Worth = Current Month's Earnings.



FOLEY'S LAST DAY at Sandia included (left photo) a tour of the Technical On-Site Inspection (TOSI) facility, where he visited with (from left) Paul Stokes (9110) and



Roger Hagengruber (9000). He also toured PBFA II (right photo), where he talked with (from right) Pace VanDevender (1200) and Venky Narayanamurti (1000) as Sandia host Arlyn Blackwell (400) looks on.

(Continued from Page One)

Foley

munitions] in meeting some kinds of threats, but the need for nuclear weapons will remain.

"And if there's a comprehensive test ban [CTB], then the stockpile will have to contain weapons with larger yields — just to make sure that we can defend ourselves, if we're forced to, with outdated or even untested weapons," Foley continues. "And, of course, Sandia would play a key role in such an effort."

"Proposals for arms control treaties and CTBs make the headlines, but other proposals are also afoot — for example, that the U.S. and the U.S.S.R. swap observers during underground nuclear tests, that we put yield-measuring devices on their tests and that they do the same on ours. If such swaps come to pass, then Sandia would certainly be involved."

Verification technology is an area of Sandia expertise that impinges on all of these proposals, but especially on arms control. "It's an extremely important role that Sandia is playing here," Foley points out. "And it's a big job — hardware development is only part of it; there's also the need for new techniques, training programs, feasibility studies, and consulting work that involves discussions, concepts, that sort of thing."

"So Sandia has done, and will continue to do, its share," Foley notes. "I'm more concerned about the Washington end — as I'm leaving DOE, I want to serve as a kind of catalyst in making DP into the verification technology focus in Washington. Currently, there's no group in charge, no group coordinating a coherent treaty verification package, no group really ensuring that the treaty signers know what's technically feasible in terms of verification."

"I'm not speaking for [Energy] Secretary Her-

ington — or for the Administration — here," he concludes, "but I do believe that it needs to be done and that it's an appropriate role for DP."

Goodbye, Sandia Patriots

"I'm fundamentally optimistic about your [Sandia's] role in the future," says Foley. "Your tradition and your culture and your reputation for quality will endure. In the next 10 years, say, your work may have a slightly wider focus, call it a little more variety out on the flanks, but it will still be state-of-the-art work. And there will be plenty of work — and plenty of challenge — in the nuclear field as long as there's a stockpile."

"One final tribute — Sandians are patriots, contributing to the security of the nation. Take pride!

"Sandia has served the nation well for 40 years. I expect it to continue." ●BH

Mimbres Pottery Reflects, Deflects River of Time



"Deliberately ambiguous in both form and content" is how Jerry Brody, UNM professor of art history, describes the pottery paintings of the prehistoric Mimbres people of southwestern New Mexico. "About 80 percent of the pottery is complex and geometrically designed," he says, "and the rest is figurative or animistic." The Mimbres favored black-on-white designs.

Only about 7000 samples of Mimbres pottery have been recovered from burial sites, yet they span three centuries. (Many of the bowls have holes in their centers, as if they were "killed" too.) The earliest paintings date back to A.D. 800, six centuries after the Mimbres first settled in small, pit-house villages and farmed near the banks of the Gila and Mimbres rivers.

Their Here and Now, Beyond

Jerry will talk about "Myth and Metaphor in Mimbres Pottery" on Aug. 13 at noon in the Tech Transfer Center. He'll bring slides to show why he treats the painted subjects as visual metaphors of an ancient culture's world view. He sees the potters touching upon everyday experience yet also evoking a mythical tradition.

This distinctive artistic style ended about the time the Mimbres people abandoned their small farming and food-gathering communities and moved into larger, Anasazi-like pueblos. Their expressive utensils changed along with their lifestyle.

But the descendants of the Mimbres live on in the Pueblos of today. And for the last 15 years Jerry has delved into ancient, old, and new Native American art of the Southwest. He has assembled some of his findings into five exhibits, one of which, "The Chaco Phenomenon," is still touring the country.

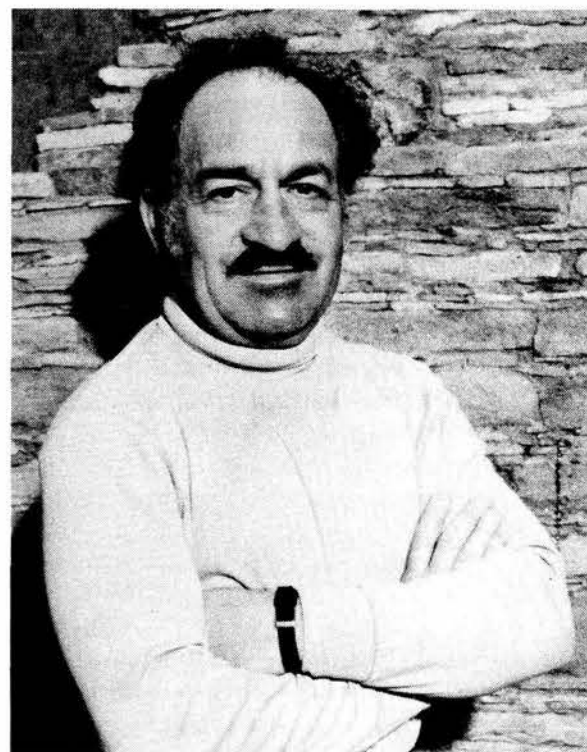
He also used his research in his books: *Indian Painters and White Patrons* (1971), *Between Traditions: Navajo Weaving 1880-1910* (1976), *Mimbres Painted Pottery* (1977), *Yazz: Navajo Painter* (1983), *Mimbres Pottery: Ancient Art of the Southwest* (1983), and writings on Anasazi painting (scheduled for publication in 1988). Jerry has received several awards for his writings (in non-fiction, art book, and doctoral dissertation categories). Some of his shorter pieces were published by *New Mexico Magazine* and other periodicals.

In Line with Museum Career

Jerry is also Research Curator at UNM's Maxwell Museum of Anthropology, which he directed from 1972-84. He began his museum career 30 years



BOTTOM OF A MIMBRES BOWL expresses otherworldly nature of a bat. Center "kill hole" shows how the bowl was "killed" for burial with a dead Mimbres. (The Taylor Museum)



JERRY BRODY, professor of art history at UNM, specializes in the pottery of the Mimbres people, a branch of the prehistoric Mogollon culture. He'll discuss the pottery in a Community Focus lecture at noon Aug. 13.

ago; along the way, he was in charge of the Museum of International Folk Art (Santa Fe) and the Isaac Delgado Museum of Art (New Orleans).

Besides teaching at UNM's Department of Art and Art History, researching (with support from a dozen grants by federal and private foundations), and managing exhibits, Jerry has consulted, advised, and served as board member at city, state, tribal, U.S., and foreign foundations and museums.

Jerry holds a Certificate in Fine Arts from The Cooper Union (New York, N.Y.) and has three art degrees from UNM, including a PhD (1970).



GOOD HOME COOKING on the 1915 Alcazar Duplex range that came with the house. It burns gas, coal, or wood — and once used gas from the carbide generator in the back yard. Rosemary bakes a delicious blueberry pie.

Retiree Roundup

Harringtons Create Shady Haven

A late-summer fishing trip in 1983 netted retiree Ken Harrington and his wife Rosemary a home that was added to the New Mexico State Historical Society Register of Historical Homes on May 15.

Passing through the small community of Ramah (southwest of Grants and 10 miles from El Morro National Monument), Ken and Rosemary spotted a "For Sale" sign on a tall wooden fence. Behind that fence was the house of their dreams, although they were the only ones who could see more than a handyman's nightmare at the time.

"The house was a mess," says Rosemary. "Ceilings were hanging down, people had been camping in the house, and black widow spiders nested all around."

Nevertheless, they were excited enough about restoring the old stone house that Ken retired from Sandia earlier than planned; then they sold their house in the Sandias. They soon found themselves in Ramah — living in a Winnebago while they hurried to make the master bedroom and kitchen livable. Winter was coming and the house didn't have central heating, so they bought wood-burning stoves for each room.

Included on the property were two one-room cabins that had been used by a mixed succession of boarders (teachers, telephone operators, and an anthropologist). Neither cabin had electricity or running water. One of the cabins was beyond repair so they tore it down. Part of the remaining cabin is now an arts and crafts workshop, the rest a giftshop where local artisans sell needlework and other arts and crafts.

There was also an adobe washhouse and a his-and-hers bathhouse. The Harringtons built a root cellar under the washhouse and converted the bathhouse into a potting shed and boat house with an attached wood shed.

It took Ken and Rosemary four years to do the restoration work with occasional help from a hired carpenter. Ken used the wood from the torn-down cabin to finish the living room's circular stairway, which had been abandoned a few feet short of the second floor.

Leap to the Stairs

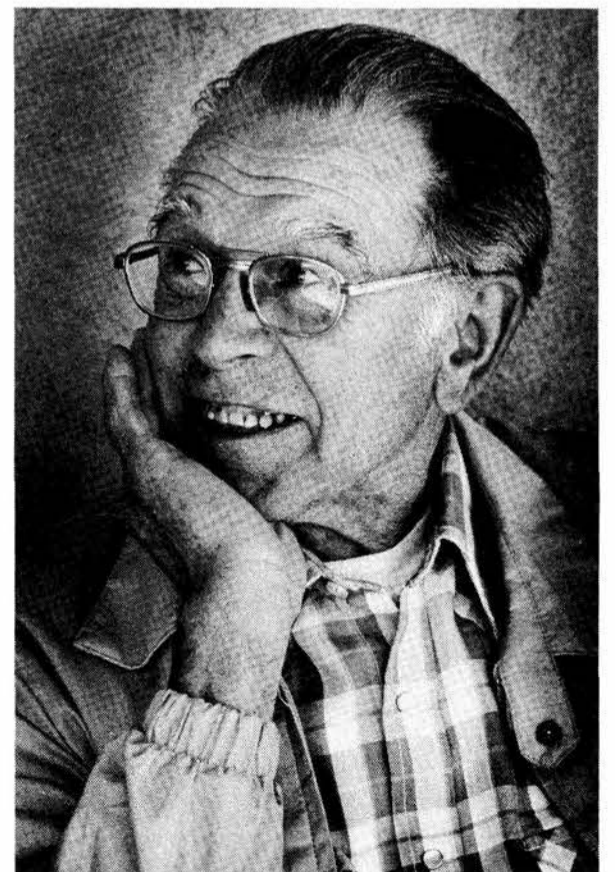
"When we first moved in, there was a gap to jump over," Rosemary says. "Our son had stored boxes full of china up there, and when I wanted to bring them down, I had to jump to the stairs with china in my arms."

The stairway had originally been in the master bedroom. "There was just a hole in the ceiling when we moved in," says Ken. He closed the hole and built floor-to-ceiling cupboards where the stairs had been.

Antiques and the Harrington's finishing touches give the home an authentic turn-of-the-century feel. The decorative glass in the transoms over the living and dining room doors was hand-etched by Rosemary. She also did the tole painting to be found all around the house. "We wanted a home that looks lived in," Rosemary says, "but we also wanted to preserve the history of the house."

Mormons and Border Raid Escapees

The history is worth preserving, both Harringtons agree. Josiah Ashcroft, a Mormon settler who fathered 27 children, built the gray stone house in 1891. Mormon missionaries had settled the area in



MAY I GO FISHING NOW? Ken Harrington, retired and ready for some relaxation.

(Continued on Next Page)



KEN GIVES ROSEMARY a push on the rope swing suspended from one of the the 95-year-old Lombardy poplars Josiah Ashcroft brought from Utah.



TIME TO RELAX AND ENJOY THEIR RETIREMENT, now that the major restoration work is finished.

(Continued from Preceding Page)

Shady Haven

1882 and named the town Ramah, a Biblical name meaning "high hill."

A family named Merrill bought the home from Ashcroft when they decided to settle in Ramah after fleeing from Pancho Villa. "As we got the story, they fled Mexico in the middle of the night on a flat-bed wagon," says Ken. "They bought the house in 1917 for two four-horse teams and a \$600 note." The house had been vacant for 15 years when Ken and Rosemary bought it from the Merrills.

Ken and Rosemary learned the history of the house and its changes over the years from the Ash-

croft and Merrill families, who have held family reunions at the house. Their interest and research led to the house's being included on the state's Historical Register.

The changes aren't ending now — "Before electricity was available, gas was piped into the house from a carbide generator in the backyard," says Ken. "We used the carbide residue from the generator pit to mix the concrete for the root cellar. I plan to make that pit into a barbecue."

The Harringtons show the house to the public upon request. "There's lots of good fishing and hunting in the area," says Ken. They enjoy company and invite visitors to stop by and see them at the home they call "Shady Haven." (Call them first: 505/783-4237.)

●JW



BUCK, FRISBEE-LOVING DOG, with Ken and Rosemary at the back porch of the house. Although the patio in the back of the house is new, Zuni craftsmen laid the

cornerstones for the house, which was built by Mormon settler Josiah Ashcroft in 1891.

Early Stress Tests Save Lives — Mine, for Example

by Ronald Ewing (9241)

A LAB NEWS article by a retired Sandian about his experience with a stress test (Sept. 26, 1986) concluded with what I believe to be poor advice. (The retiree took a series of tests that led to a stress test. His stress test showed some abnormalities, but his angiogram did not reveal any heart disease, so he ended up questioning the economic value of the tests. He "felt fine" all along.)

The advice implicit in the article — stress tests are useless if you feel good — is, from my experience, wrong. It may well be that I am alive right now because I had a stress test rather than believe the "feeling fine" messages from my body.

Fortunately for me, the medical community recommends a diagnostic stress test for all males over 50 who intend to exercise vigorously, or who have a family history of heart disease, even though no heart symptoms have been encountered. I was simply following that recommendation.

According to the American Heart Association, about one-quarter million Americans this year will experience their first and only symptom of heart disease — sudden death. Most of these deaths, it is estimated, could have been avoided by diagnostic stress testing.

An even greater number of Americans will experience a survivable heart attack as their first symptom. Not a very pleasant prospect. Most of that trauma could have been avoided by early stress testing.

When I had my regular physical checkup at Sandia Medical last year, Dr. Merrie Rockwell (3320) reported that all my lab tests looked normal, including my resting EKG, and I seemed to be in good health. However, since I had just turned 50, exercised regularly, and had some family history of heart disease, she suggested I take a treadmill stress test.

Initially, I was a little offended: Come on, I feel great. No heart symptoms whatsoever. I've been a sky diver, auto racer and rallyist, and I've skied downhill and cross-country. I've ridden my bicycle to work for more than 30 years, and for many years I ran or swam a mile before breakfast. Given the proper weapons, I felt I could lick any man in the bar.

Off to the Cardiologists

But, after thoughtful reflection (and some prodding from home), I decided to comply. So, off to see the cardiologists and impress them with my treadmill ability. The result was "not bad, but some abnormality, maybe a 'false positive.'" So, on to the thallium test. The result was "not bad, but some abnormality, maybe a 'false positive.'" "

So, on to the angiogram. This time the result was unequivocal: I had what was whimsically referred to as "the widowmaker," a 90 percent blockage of one of the main heart arteries. And me with no symptoms!

Left to the guidance of the "feeling fine" sig-

nals from my body, the likelihood was that one day, any day, maybe just strolling along — "Oops-Plop." Instant widowmaker. The stress tests had been just adequate to allow the cardiologists to make a clear diagnosis.

I would gladly have exchanged the result of my angiogram with that of the more fortunate but doubting retiree. Maybe then he would have gotten his money's worth. I know that I did. Reminds me of my grandfather's friend who always felt that he shouldn't have to pay the doctor unless some horrible disease were found.

My condition was corrected by the modern miracle of angioplasty. I am here, literally, to tell you that it works. The procedure is similar to the angiogram: a small incision in the leg, and a thin tube threaded painlessly up into the heart artery. There is a small balloon on the end of the tube that is inflated inside the obstruction to crush it against the wall of the artery and open up the blood flow. Usually within two days you are out of the hospital, feeling fine.

It has now been well over a year since my first stress test. My follow-up tests are normal, and I can feel the improvement in my heart's recovery after exercise.

I now know for a fact that "feeling fine" signals from the body can be inadequate. I think that we are extremely fortunate to have modern medicine and its technology, including stress tests, at our disposal. We should heed the advice, and make use of the tests and tools available.

There was a bullet headed my way, and the stress test allowed me to dodge it. The next life saved just might be yours.

Welcome

Albuquerque
David Gallegos (6416)
Arizona
Gregory Olbright (1124)
California
Timothy O'Hern (1512)
Phillip Pelzman (7832)
Illinois
John Reno (1144)
Michigan
Sanford Ballard (1541)
Minnesota
Nancy Russell (6415)
Ohio
Jimmy Brown (2855)
Texas
Steven Hurd (3532)
Washington
Michael Furnish (1534)



RACE-WALKER — and runner, swimmer, biker, skier, auto racer, and sky diver — Ron Ewing (9241) avoided a "widowmaker" heart problem, thanks to an early stress test and an angioplasty.



Here are a few current volunteer opportunities for employees, retirees, and family members. If you would like more information, call Karen Shane (3163) on 4-3268.

AN EVENING OF ENCHANTMENT is a fund-raising event, directed by a Sandian, for Cystic Fibrosis. The play, accompanied by a good deal of special effects, will be held in October at Albuquerque Little Theatre. The director needs volunteers who are familiar with ballroom dancing for a scene. Additional volunteers are needed for the "crowd" in the same scene.

PROTECTION ADVOCACY is a non-profit agency that provides legal services for people with mental and physical disabilities. It needs a systems analyst to help formulate a new management system.

POLICE ATHLETIC LEAGUE is conducting a golf tournament on August 20 at Tanoan Country Club as a fund-raising event for its youth programs. A volunteer is needed to design a poster for the event.

feed liback

Q. Why do visitors have better parking places than employees do? We have to come in to work a half hour early to get a parking space where we don't have to walk a mile on a bad day. Why can't visitor parking be moved farther out?

A. Visitor parking was established to accommodate non-Sandians who visit Sandia on official business. At Albuquerque, visitors' vehicles are identified by the lack of a Sandia decal. (Please refer to SLI 1904, page 1, Definitions). This policy was established as a courtesy and to assist visitors in accomplishing their business. This practice is widely followed in business and industry.

I recognize that open parking for employees is not as convenient, but every effort has been made to make parking as acceptable as possible. Several outlying parking lots are never completely filled. It may require walking a little farther, depending on your time of arrival for work, but it is not considered an excessive distance and certainly not a mile from the nearest entrance to the technical area.

Special parking is, of course, arranged by Medical for employees with a physical handicap or temporary physical problem.

Jim Martin - 3400

Congratulations

To Tina Tanaka (7112) and Stephen Martin (1113), married in Albuquerque, June 13.

To Kaye Lynn and Allen (1533) Robinson, a daughter, Carrie Lee, June 20.

To Carla Holdcroft and Scott Slezak (6427), married in Champaign, Ill., July 4.

To Patti and Victor (1231) Harper-Slaboszewicz, a son, Jon Thomas, July 6.

To Stephanie and Ron (7171) Taylor, a daughter, Amanda Lynn, July 6.

To Jo Ann Hooker (7551) and David Keicher (1833), married in New York, July 12.

To Carmela Garcia (5253) and Carlton Gallegos, married in Acoma, July 18.

Sympathy

To Roger McClure (7812) on the death of his wife in Albuquerque, July 13.

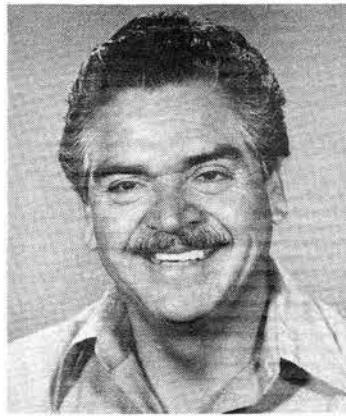
To Joe Dykes (7173) on the death of his mother in Tyler, Tex., July 14.

To Sally Sawyer (21-1) on the death of her father in Albuquerque, July 15.

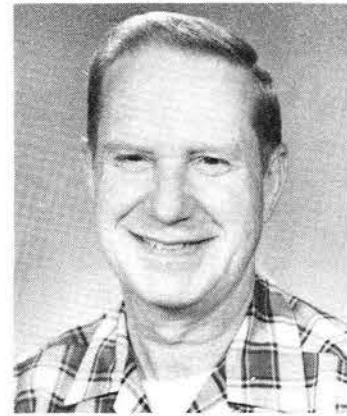
MILEPOSTS

LAB NEWS

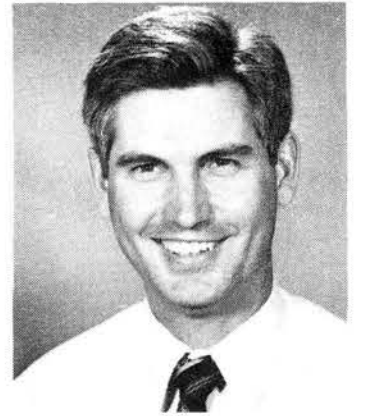
JULY 1987



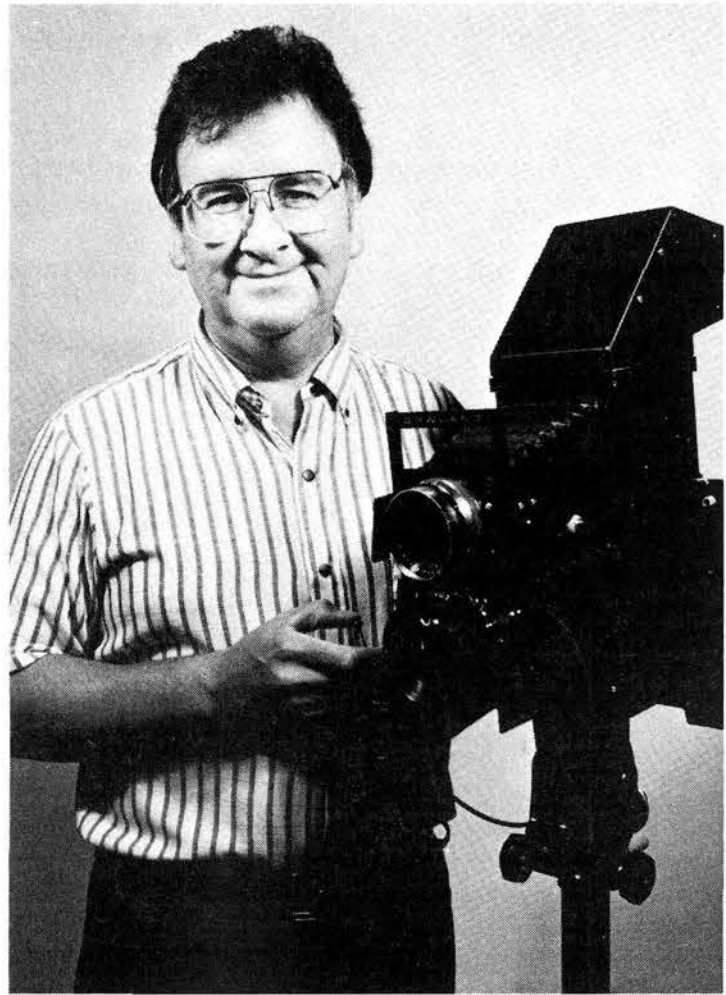
Vic Lira (2855) 20



Don Amos (DMTS, 1422) 25



Wilson Barnard (2116) 20



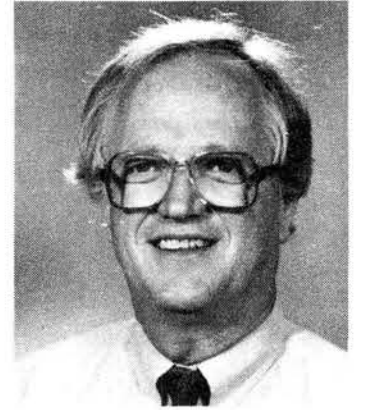
Louis Archuleta (3155) 20



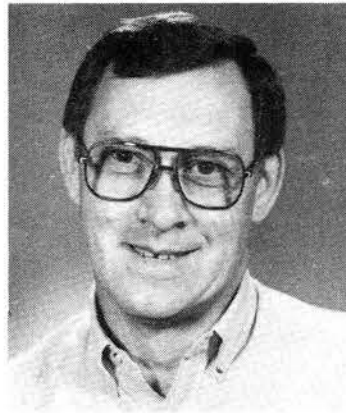
Bob Crotzer (7481) 20



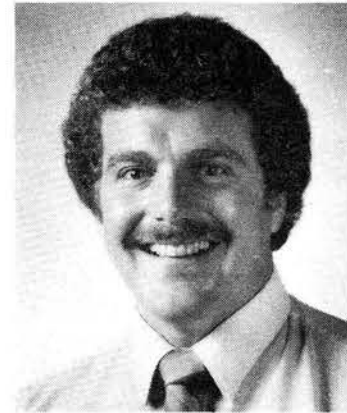
Renee Foster (3163) 15



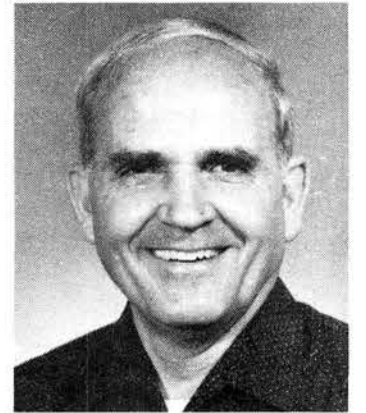
Bill Hartman (5214) 30



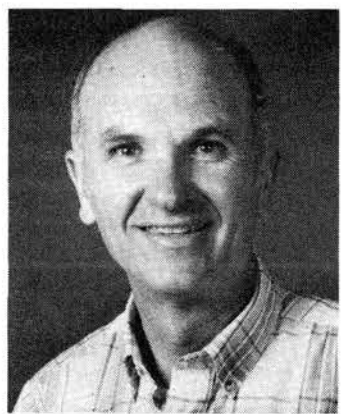
Don Gluvna (5123) 25



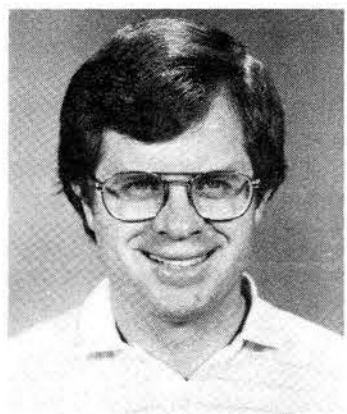
Bob Arnot (8185) 10



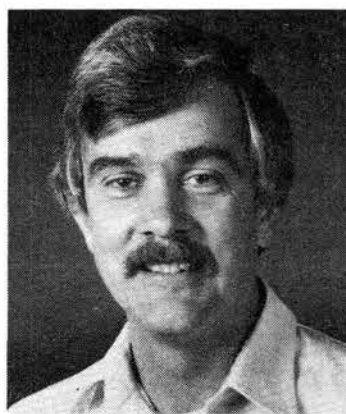
Howard Gerwin (3433) 30



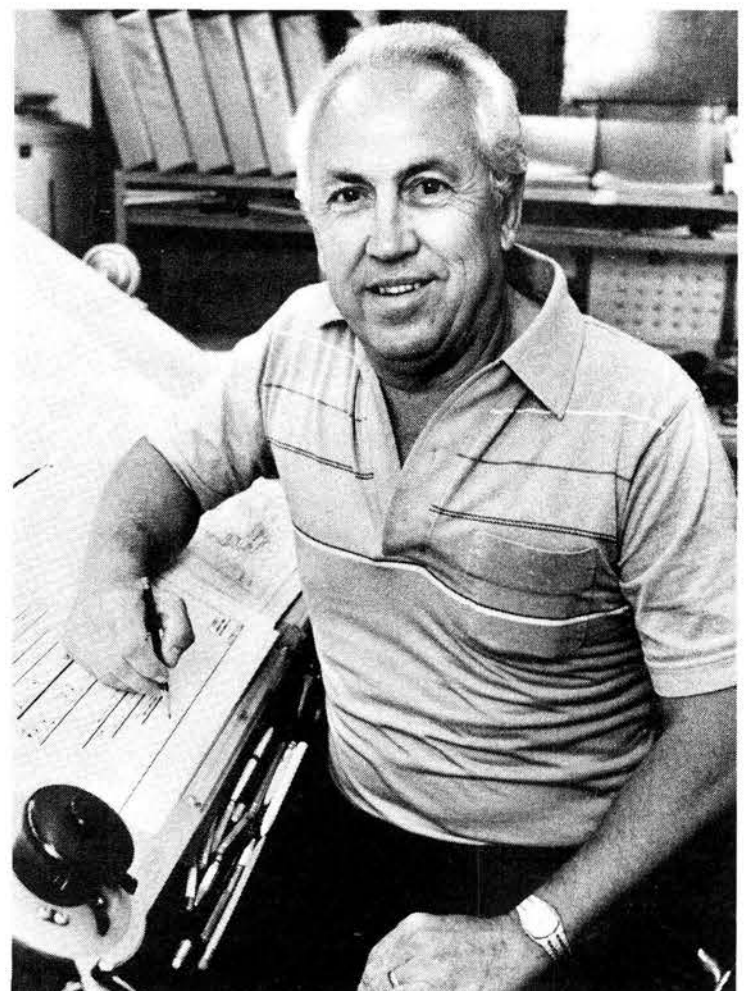
Jan Collins (8152) 10



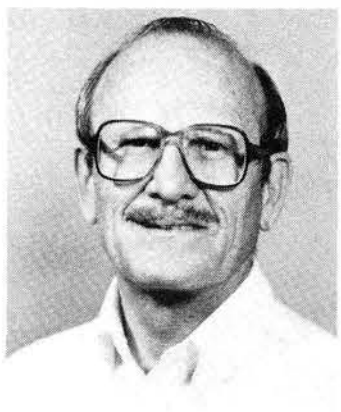
Chris Cameron (6222) 10



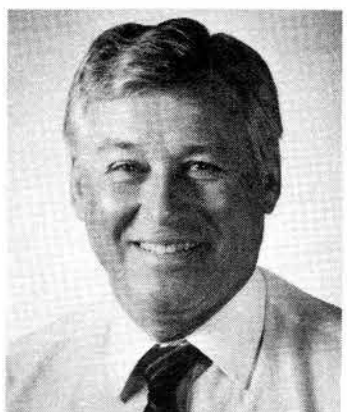
Rich Behrens (8357) 10



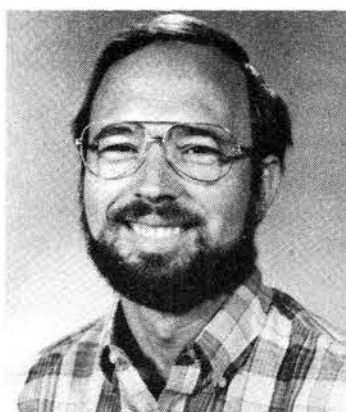
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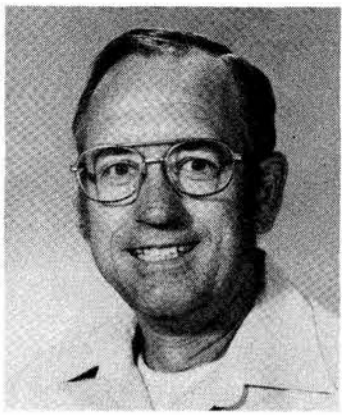
Bob Peet (7137) 35



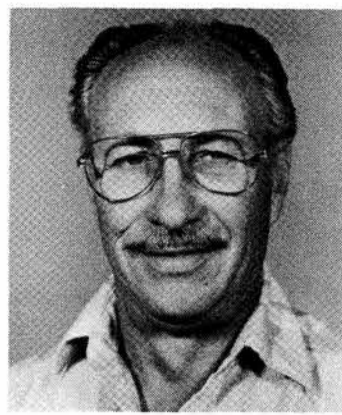
Don Wagner (8262) 30



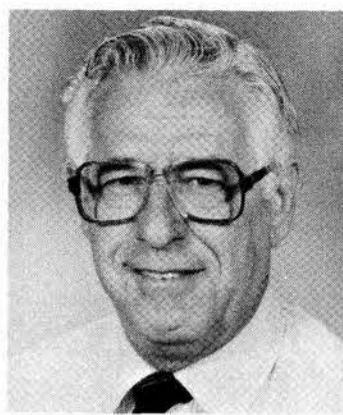
Phil Rodacy (1821) 10



Alton Shaut (5141) 25



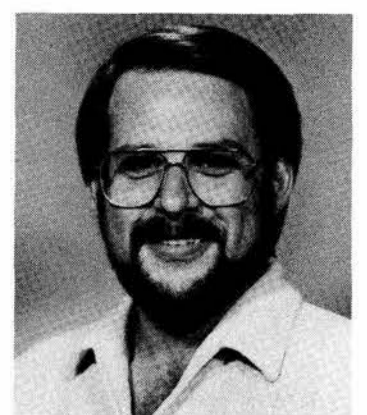
Abel Anaya (3154) 20



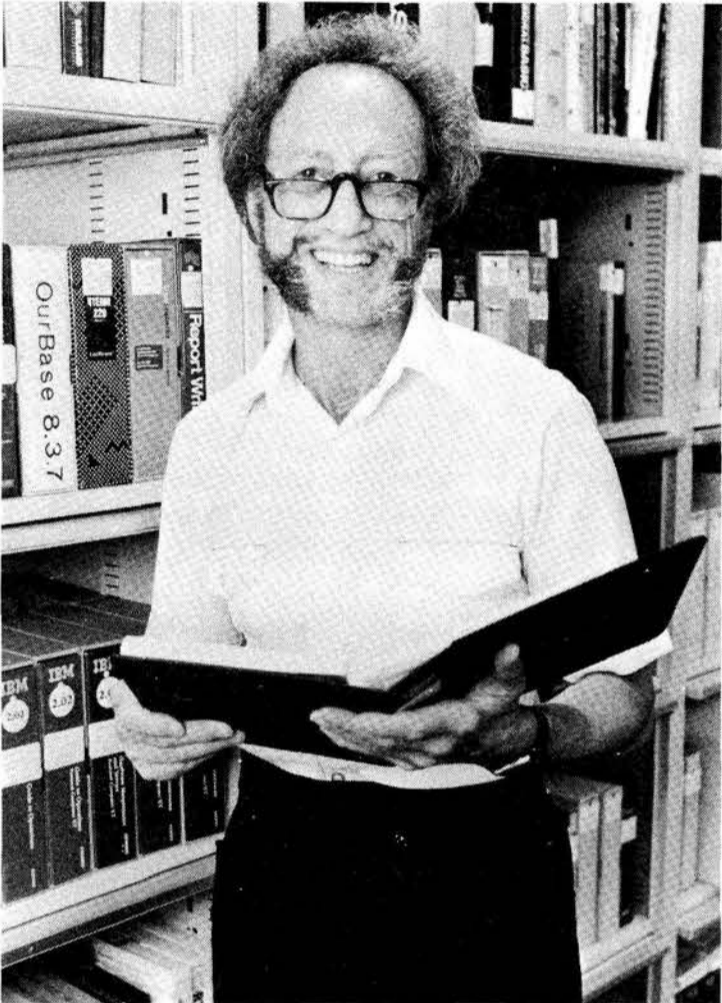
Duane Randall (9142) 30



Bob Martin (2545) 30



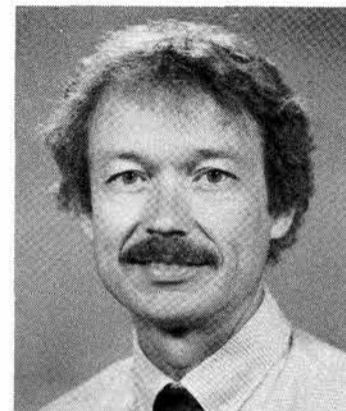
Bruce Engler (6258) 10



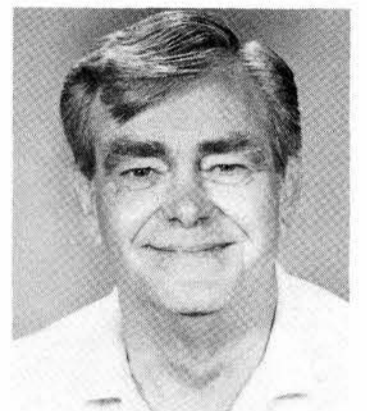
David Judd (2613) 35



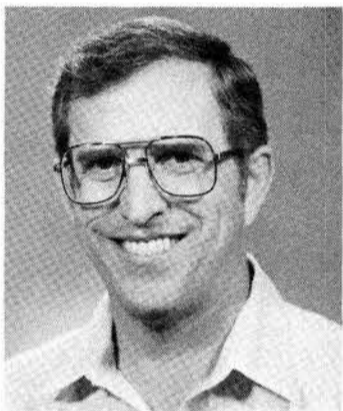
La Vonne Pickens (8264) 15



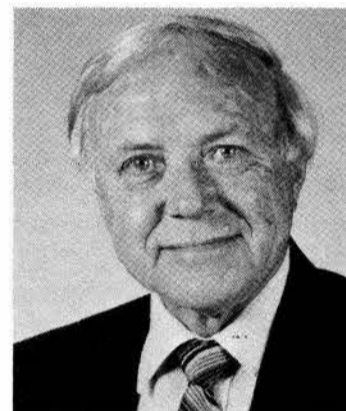
Fred Hartman (2321) 20



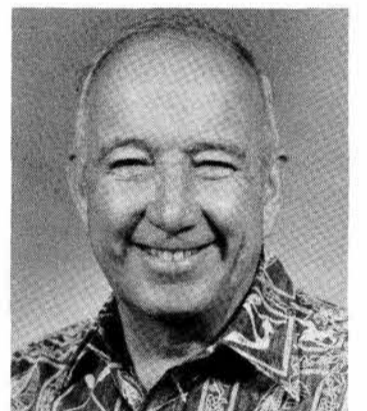
Lawrence Allen (2515) 20



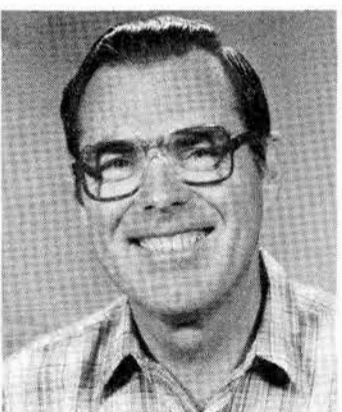
Ken Kimball (2336) 25



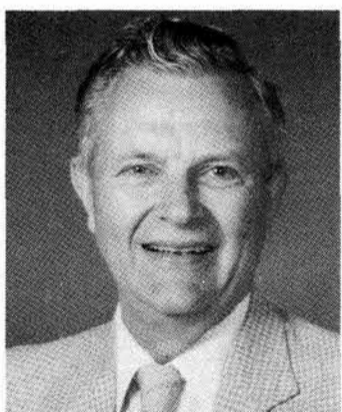
Bob Peterson (8462) 35



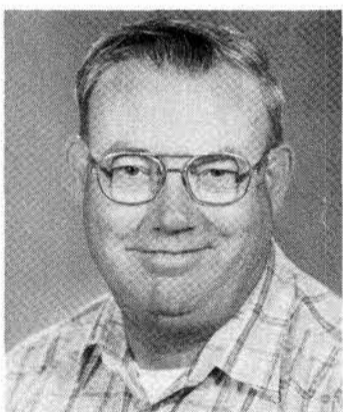
James Gallagher (9143) 35



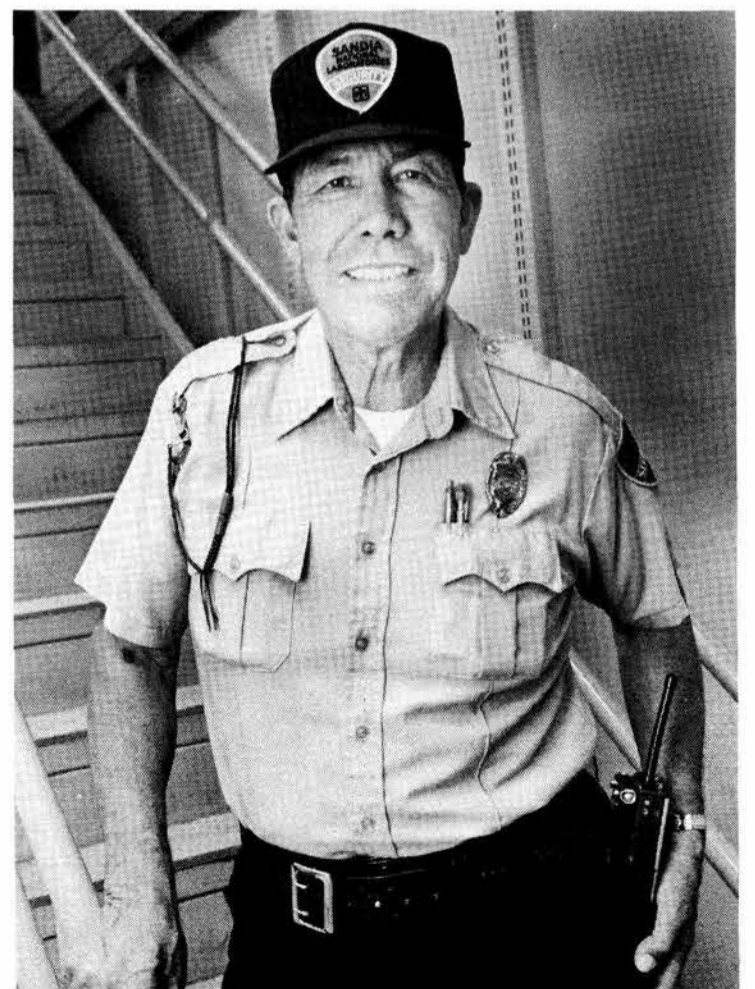
William Stephenson (6225)30



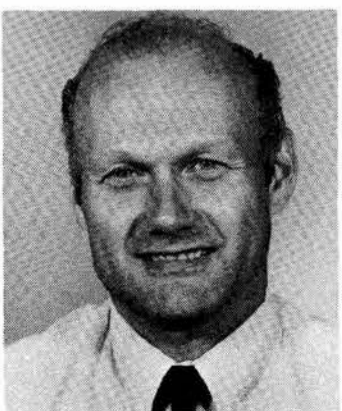
Bob Johnsen (8411) 30



Jim Trentham (5143) 20



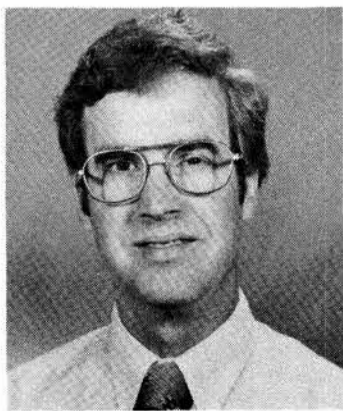
Albert Joe Angel (3434) 35



John Stichman (2330) 15



Jack Wirth (2300) 25



Bruce Walker (2345) 10

Register to Vote — Aug. 4, 11-1:30, Bldg. 800 Lobby

UNCLASSIFIED ADVERTISEMENTS • UNCLASSIFIED ADVERTISEMENTS • UNCLASSIFIED ADVERTISEMENTS • UNCLASSIFIED ADVERTISEMENTS

Deadline: Friday noon before week of publication unless changed by holiday. Mail to Div. 3162.

Ad Rules

1. Limit 20 words, including last name and home phone.
2. Include organization and full name with each ad submission.
3. Submit each ad in writing. No phone-ins.
4. Use 8 1/2 by 11-inch paper.
5. Use separate sheet for each ad category.
6. Type or print ads legibly; use only accepted abbreviations.
7. One ad per category per issue.
8. No more than two insertions of same ad.
9. No "For Rent" ads except for employees on temporary assignment.
10. No commercial ads.
11. For active and retired Sandians and DOE employees.
12. Housing listed for sale is available for occupancy without regard to race, creed, color, or national origin.

MISCELLANEOUS

GE REFRIGERATOR, 21.6 cu. ft., used 3 years, \$500; Maytag washer and dryer, \$150; Lawnboy, 21", \$150; three TVs, \$50-\$150; Emerson upright piano, 70 yrs. old, refinished, \$400; file cabinet, \$50; 72" stereo cabinet, \$50. Davie, 821-7755.

MATCHING FURNITURE: end tables, coffee table, bookcase, \$125. Williams, 268-9757.

FULL-SIZE CABOVER CAMPER, fits long wide-bed trucks, \$800 OBO; Marquette horizontal freezer, 15 cu. ft., \$150 OBO. Guay, 281-3891.

POWER LAWN MOWER, 3-hp Briggs & Stratton engine, w/grass catcher, \$65; La-Z-Boy swivel rocker, \$50; 2 armchairs, swivel on rollers, \$39/ea. Paul, 299-6387.

FERTILIZER STAKES, Ross and Jobe, evergreen type, about 100, 20¢ ea. Schkade, 292-5126.

TWO-CUSHION LOVESEAT, brown/beige, w/extra side cushions, \$50. Clever, 298-9224 after 6.

INVERSION MACHINE, w/boots, \$150; 310-lb. weights, 50¢/lb.; Weider locking barbell, \$15. Kaiser, 293-3868.

DOGS: red Doberman female, 2 yrs. old, free to good home; black Doberman female, 9 mos. old, \$100. Padilla, 873-0271.

CABOVER CAMPER, 8' Goldstar, gas/electric refrigerator, Coleman 3-burner cooktop, heater, new electric water pump, double sink, storage. Garrison, 296-4108.

ADMIRAL UPRIGHT FREEZER, 10 cu. ft., 1 yr. old, \$180; Hitachi 19" color TV, 2 yrs. old, \$175. Schmidt, 867-5989.

FOUR-DRAWER CHEST, double bed, table, \$100/set; woman's racquetball set, new; power mower, needs work, \$10. Miller, 281-3189.

HIGH CHAIR, \$20. Montano, 294-4238.

TAPPAN MICROWAVE OVEN, \$65. Bass, 884-8491.

KING-SIZE WATER BED, \$75; Maytag apt.-size dryer; kitchen table & chairs; Subaru louver; Laser car mask. Salgado, 291-9460.

KELTY BACKPACK, external frame, red w/black harness, \$75; Northface 2-man alpine tent, \$75. Horton, 884-8989.

BEGINNER'S WEIGHT BENCH, 110 lbs. of weights, 5-ft. bar, triceps bar, \$70. Klinetobe, 298-2315 after 5:30.

ROOFTOP LUGGAGE RACK, for VW bus, 56" x 49", tubular metal, \$65; Hoover floor scrubber, twin heads, extra polishing brushes, \$24. Reid, 268-6506.

22-CAL. SINGLE-ACTION REVOLVER w/holster, LR and magnum cylinders, \$45; woman's white skates, used twice, size 9, \$125. Bray, 292-2410.

PANASONIC CAR STEREO, AM/FM cassette w/auto reverse, clock, balance, fade, station presets and seek, \$99. Skroch, 828-0239.

WINGBACK CHAIR, traditional style, flame stitch, \$100; lamp/table combination, pine, base is magazine

holder, \$55. Johnson, 296-1917.

KAYAK W/APRON, \$100; contractor's wheelbarrow, new, \$50; Motobecane 10-spd., 25" frame, cotterless cranks, \$125; garage sale, Aug. 1, 2517 Cutler NE. Shunny, 265-1620.

PIANO, Story & Clark, maple finish, w/bench, \$1000. Walker, 294-2293.

SATELLITE DISH SYSTEM, 8', 2 yrs. old, new receiver, \$950. Pettitt, 873-0020.

KONICA FS1 SLR CAMERA, 40/1.8 lens, fully electronic, w/autowinder, \$75 OBO. Pepping, 292-0747.

PIANO, Wurlitzer spinet, \$950 OBO. Slutz, 898-9462.

MUSIC BOOKS, Vols. I & II, scores for silent movies in early 1900s. Bazar, 898-1467.

COUCH, carpeting. Jensen, 256-0593.

BRASS FLOOR LAMP, 55" tall, off-white pleated shade, \$35. Barr, 821-5870.

CONSOLE STEREO, hanging gold-color lamp. Sedillo, 255-0669.

PROJECTOR, manual changer, case, viewer, two steel storage trays, for 2-1/4 x 2-1/4 slides, \$25. Wempe, 884-7325.

DINING TABLE, oak and glass, brass-tone frame, no chairs, \$60. Murray, 296-2479.

LADDER RACK for small pickup, \$75; two wide 14" Ford Appliance rims, \$25; sunroof, \$15. Wilson, 299-1480.

CARPET & PAD, 100 sq. yds., 3 yrs. old, earth-tone, \$2/yd. Wagner, 823-9323.

BED LINER for Mazda B-2000 truck, \$170. Lauriano, 293-1315 or 296-5713, leave message.

STARBUCKS TENT TRAILER, '72 Star-master 6, sink, electric water pump, 3-burner cooktop, icebox, heater, \$1800. White, 869-6826.

KING-SIZE WATER BED, solid oak, w/bookcase headboard, 4-drawer pedestal, cost \$1800, sell for \$500. Bennett, 293-4547.

MATCHING DEN SOFA & CHAIR, gold, oak, \$80 & \$50; space-saver recliner, gold, \$60; maple rocker, with turquoise tweed upholstery, \$40. Trump, 299-5162.

EXERCISE BIKE, Sear's Vitamaster, 56 miles on odometer, \$100. Bates, 296-1710.

BUNNY TRUMPET, used 1 yr., \$150. Knapp, 294-6359.

AIRBRUSH COMPRESSOR, "Air Force," \$375 OBO. Noack, 268-0737 after Aug. 2.

ANTIQUES: 36-pc. set James rock crystal, thistle pattern, \$200; 1901 edition Encyclopedia Americana, make offer. Daniel, 268-8335.

AUTO PARTS: '70 Honda CB450 and Honda CB750K, engine and electrical parts, make offer. Barnard, 831-4114.

WALL-HUGGER RECLINER, gold. Aboytes, 823-2791.

VHS VCR, Montgomery Ward, 3 yrs. old, \$50. Hudson, 255-8385.

EVAPORATIVE COOLER MOTOR, 1/3-hp, 2-spd., \$15. Maloney, 821-6661.

FURNITURE, household items, moving sale, Aug. 1, 7209 Cindy Dr. NE; '83 Craftsman 3750-watt portable generator, electric start, 16-amp/220V and 31-amp/120V output, \$600. Burns, 281-2027.

TWO HEAVY-DUTY BENCH TOPS, \$30/ea.; metal AC decking, \$20 OBO; grill for '78-'79 Monte Carlo, \$20; 3-spd. transmission for '70 Mustang, w/bell-housing, \$40; rear bumper for '87 Dodge Aries, \$30. Chavez, 842-6374.

'85 GM AUTO OVERDRIVE, transmission type 700R4, \$700 value at junk yard, \$450. Thalhammer, 298-8521.

DINING ROOM TABLE, Ethan Allen, solid maple, 66" x 22", folds out to serve 6-8 people, w/4 chairs. Fitzgerald, 884-4607.

UPHOLSTERED BAR STOOLS; 9' x 15' Karastan area rug; walnut end table; registered walnut occasional table. DeWerff, 298-1029 after 6.

CRAFTSMAN DRILL PRESS STAND, \$20. Hansche, 281-5623.

REFRIGERATOR, 1.6 cu. ft., 1 yr. old, \$70. Hawkins, 296-8531.

WEIGHT BENCH and weight set; new snow chains for 15" tires. Rodacy, 293-2668.

NORWEGIAN ELKHOUND, 6 yrs. old, neutered, free to good home without children. Zeuch, 296-4969.

GE DISHWASHER, avocado, \$50. Bixler, 293-7205.

DOG, terrier mix, 11 yrs. old, immunization current. O'Bryan, 822-0924.

COUCH, 2 matching chairs, 3 lamps, \$175; tankless water heater, \$300. Newman, 299-2729.

CHROME-STYLED STEEL WHEELS, for Mazda pickup, set of 4, \$80. Bloomquist, 821-3018.

NETHERLAND DWARF MINIATURE RABBITS, various colors, \$10-\$25/ea. Sharp, 243-1498.

TRANSPORTATION

'86 HYUNDAI EXCEL, 4-dr. hatchback, 10K miles, AM/FM tape, AC, \$4900; '80 VW Scirocco, 65K miles, \$2000, moving overseas. Davie, 821-7755.

'78 DODGE D200 PICKUP, 400 cid, 3/4-ton, AT, club cab, \$1950. Youngman, 892-8037 evenings.

'82 TRIUMPH BONNEVILLE ROYAL, 7K miles, \$1000 OBO. Strait, 842-1695.

'84 FORD RANGER 4x4, V-6, 4-spd., PS, PB, camper shell, stereo, new tires, 38K miles. Smid, 344-7649.

'76 DODGE DART, has body dents, \$150. Chen, 821-6242.

'75 PONTIAC ASTRE, \$500 OBO. Garcia, 821-5006.

'84 TOYOTA PICKUP, \$4900; '80 MGB, \$3500; '86 KDX 200 dirt bike, \$1500; '82 Husky 250 XC, \$800; will consider offers. Pryor, 294-6980.

'49 CHEV. PICKUP, newly rewired w/gauges and lights, \$1200 invested, asking \$1000. Anderson, 897-3701.

'81 TOYOTA TERCEL, 60K miles, \$2000. Medernach, 299-9322.

'77 BUICK SKYLARK SR, 4-dr., Michelins, AM/FM stereo, AC, AT, PS, PB, cruise, original owner. Jaeger, 299-0860.

'76 FORD F250 TRUCK, 360 cid, 4-spd., no power or AC, equipped for heavy loads or towing, \$1750. Andersen, 294-8624.

WOMAN'S PORTABLE BIKE, 24" Peugeot "bike-away," \$50. Clever, 298-9224 after 6.

'84 KAWASAKI GPZ 750, \$1900 OBO. Duggan, 242-5966 after 5.

'83 YAMAHA VENTURE, 3K miles, extras, \$4200 OBO. Green, 828-0050.

'78 DODGE OMNI, 4-dr., AT, PS, 108K miles, rear body damage, \$550. Bundy, 821-1846.

'85 FORD TEMPO, 5-spd., AM/FM cassette stereo, cruise, take over payments. Salgado, 291-9460.

'77 YAMAHA XS650D, \$600. Potts, 821-1013.

'86 TOYOTA VAN, 6.7K miles, dual AC, tilt, rack, blinds, 7-passenger, velour interior, warranty, balance \$11,600. Babb, 296-7955.

BOY'S 24" BICYCLE, Rampar, \$50. Klinetobe, 298-2315 after 5:30.

MAN'S 10-SPD. RALEIGH BICYCLE, touring, maroon, \$35. Reid, 268-6506.

'75 TOYOTA MkII, project car, mini-mustang, completely rebuilt SOHC six, 4-spd., needs some wiring, \$1100 invested, \$400 OBO. McDowell, 299-6222.

'86 BUICK CENTURY, T-type, all available options, suspension package, fuel injection, 9K miles. Kupper, 298-7720.

'79 CAMARO BERLINETTA, AT, PS, PB, \$2100 OBO. Pettitt, 873-0020.

'74 PLYMOUTH DUSTER, slant six, AT, \$595. Rauch, 821-6992.

'87 SUZUKI SAMURAI JX, AM/FM cassette, convertible, 3.5K miles, \$7500. Lucero, 293-4266.

'75 CHEV. MONZA, 4-spd., PS, AM/FM cassette, w/recently replaced clutch, brakes, muffler, battery, windshield, \$850 OBO. Hale, 298-1545.

25' CLASS A MOTORHOME, Ford 390, Onan generator, \$10,000. Campbell, 299-9195.

'78 SUBARU SW, AC, new clutch and brakes, \$750. Snow, 883-1268.

'75 CHEV. NOVA, V-8, AT, PS, 4-dr., trailer hitch, cruise, one owner, \$875. Fernandez, 298-9715.

MAN'S BICYCLE, 26", 3-spd., \$40. Diegle, 294-5565.

'68 VW BUG, new paint, AT, completely overhauled engine, \$3000. Sandoval, 255-9189 or 293-6003.

HOBIE 16', w/trailer, boat box, life vests, throw cushion, paddle, grill, beach shelter, toolbox, spare parts, \$2000 OBO. Cyrus, 898-4038.

'75 TR-7 ROADSTER, hardtop, 94K miles, \$850. West, 821-5420.

'80 KAWASAKI KZ750E, 1/4 fairing, cover, \$1400 OBO. Brusseau, 892-6840.

'80 DATSUN, heavy-duty cab and chassis, stake bed truck, factory AC, 67K miles, \$3200. Jones, 888-1564.

'84 HONDA 750 INTERCEPTOR, sport rack, Supertrapp exhaust system, 11K miles, \$2600 OBO. Barnard, 831-4114.

'78 AMC PACER SW, V-8, AT, PS, AC, 62K miles, \$750. Hufnagel, 294-5949.

JAMIS DAKOTA BICYCLE, 23", Shimano components, Biopace chain rings, sealed bearings, \$400. Brower, 298-2254.

'81 FORD GRANADA, 4-dr. sedan, AT, PS, AC, AM/FM, tilt, cruise, one owner, \$2595. Martinez, 298-7382.

'77 CHEV. CAMPER VAN, fiberglass top, stove, sink, icebox, sleeps 4, new upholstery, 350 engine, AT, \$3750. Simmons, 292-5201.

'75 LINCOLN CONTINENTAL MARK IV, new top, leather interior, \$1975 OBO. Kraft, 299-2157.

'77 VW DASHER SW, 4-spd., regular gas, 55K miles. DeWerff, 298-1029 after 6.

'74 YAMAHA ENDURO DT400, street-legal, windshield, \$200. Hansche, 281-5623.

SANDRAIL, w/1200cc engine, high back seats, belts, tow bar, \$1350. Fine, 268-4491.

O'DAY DAYSAILER, 17', w/trailer, \$2800; Honda 7.5-hp outboard motor, \$850. Melvin, 298-6402.

'66 MUSTANG, hardtop, new maroon paint, new black interior, 289 engine, AT, \$2800. Moss, 299-5149.

WOMAN'S BICYCLE, 10-spd., Mohawk, \$30. Esterly, 296-9759.

BICYCLE, 27", Austro-Daimler, 24" frame, gray, \$160; Blackburn rack, \$10. Bixler, 293-7205.

'79 YAMAHA ENDURO MOTORCYCLE, new battery. Schultheis, 881-7269.

'86 NISSAN STANZA SW, FWD, PS, AC, AT, cruise, manual OD, AM/FM stereo cassette, \$8500. Silverman, 298-1308.

'77 TOYOTA CELICA, \$1500 OBO. Bland, 821-4860.

'71 TRAVELALL, 345 cid, AT, AC, PS, PB and Positraction, \$800 OBO; '68 Triumph TR4A, 4-cyl., Blaupunkt stereo, 60K miles, \$1500 OBO. Neau, 345-9345.

'73 CHEV. VAN, 7-passenger, front & rear AC, new Michelins, 80K miles, one owner, \$2500. Kaiser, 296-5215.

'72 CADILLAC, needs transmission, electric windows, make offer. Newell, 293-3636.

'79 MOBILE TRAVELER 19' MMH, 31K miles, sleeps 5. Sharp, 243-1498.

'73 CADILLAC, white, 450 engine, \$2500. Ortiz, 344-9086.

REAL ESTATE

TWO-ACRE RESIDENTIAL LOT, trees, water, underground utilities, near river, horses permitted, south of Los Lunas, owner will finance. Hart, 821-4455.

2-BDR. MOBILE HOME, Henslee, 12' x 60', 1-1/2 baths, set up on rented space in mountains, \$6000. Judd, 281-2121.

2-BDR. HOME in Daytona Beach, Fla., 1 bath, Florida room, double garage/shop, carport, corner lot, near schools/shopping, \$60,000. Bencoe, 294-3768.

3-BDR. HOME, near Tramway & Copper, 1-3/4 baths, auto sprinklers, single garage. Herrera, 292-7502.

1-BDR. CONDO, near airport, across from golf course, pool, \$29,900 OBO. Bozone, 298-3328 or 242-8295.

4-BDR. HOME, 30 mins. south of Albq., 2 baths, den/FP, covered patio, land-

scaped, 2200 sq. ft., extras, \$72,000. Franks, 298-0481.

2-BDR. PATIO HOME, NE, 2 baths, study, 2-car finished garage, FP, established landscaping, timed sprinklers, 1212 sq. ft., \$86,500. Dobranich, 298-4547.

3-BDR. HOME, den, carpet, solar heat, storm windows, double garage, rear parking, near UNM (Jefferson and Montezuma). Daniel, 268-8335.

3-BDR. HOME, Montclair near Carlisle, 1400 sq. ft., 1-3/4 baths, FP, hardwood floors, double garage, \$89,500. Iacoletti, 822-8284.

2-BDR. TOWNHOUSE, 1-3/4 baths, single garage, auto sprinklers, fenced yard, \$39,900. Schindewolf, 831-1940.

1-BDR. HOME in Portales, close to ENMU, frame stucco, pitched roof, carpet throughout, appliances, \$9800 total, \$129/mo. PITI. Snelling, 294-5751.

3-BDR. BRICK HOME, 1-3/4 baths, 1375 sq. ft., near Sandia HS, single garage, covered patio, pond, waterfall, \$79,900. Davis, 293-1287.

3-BDR. BRICK MOSSMAN HOME, off Comanche, 1560 sq. ft., 1-3/4 baths, pitched roof, grass front & back, \$91,500. Gillings, 884-0853.

3-BDR. HOME, 1780 sq. ft., 1-3/4 baths, hot tub, landscaped, Juan Tabo & Menaul, \$105,000. King, 299-9184.

2-BDR. TOWNHOME, study, 1772 sq. ft., 3-1/2 yrs. old, private yard on cul-de-sac, Eubank & Layton, LR/DR areas, 2 baths, storage, finished 2-car garage, 9-1/2 percent FHA assumable. O'Bryan, 822-0924.

2 ACRES on So. 14 near Ponderosa Cafe, well, electricity, paved road, sell, trade, take terms. Lopez, 873-3099.

FOR LEASE

3-BDR. HOME, 1 year starting Sept. 1, 1800 sq. ft., auto sprinklers, garage opener, NE Heights, \$800/mo. Doerr, 823-1867.

WANTED

QUESTAR TELESCOPE, field model or duplex preferred. Mattox, 292-7763.

DEPENDABLE ROOMMATE, share 2-bdr. apt., 2 baths, near University, \$212/mo., utilities included. Self, 262-1056.

BACKPACK, in good to fair condition, for avid backpacker, college student, price range limited. Brockman, 836-2527.

RELIABLE 4-DR. FIAT or equivalent, must be in fair shape, will pay cash. Anderson, 897-3701.

BOAT, small lightweight dinghy, about 8', no fishing boats, for use as a sailboat tender. Andersen, 294-8624.

SHOP MANUAL for '76 Jeep Wagoneer, 360 V-8. Stuart, 299-9190.

OSCILLOSCOPE and electronic test gear. Brocato, 281-9656.

VIDEOTAPES of first two episodes of "In Search of the Trojan War." Miller, 255-7716.

SOCCER PLAYERS, experienced, to play in men's city league, 2nd div. team. Domingues, 821-9061.

4-POSTER BEDROOM SET, queen-size, at least 3 pieces. Bazar, 898-1467.

HOBIE CAT 16', w/trailer, prefer newer model. Horton, 884-8989.

CONDO OR BEACH HOUSE to rent in San Diego area, need Aug. 22 through Sept. 5. Montoya, 296-4268.

20mm or 24mm LENS, Nikon mount. Snow, 883-1268.

CADILLAC WIRE SPOKE WHEEL COVERS, 4 original, 15". Carrillo, 292-7283.

BIG, OLD CONVERTIBLE, '65-'80, must be driveable. Cyrus, 898-4038.

TORTOISE (land turtle) to live in back yard. Rodacy, 293-2668.

WORK WANTED

PAINTING, interior and exterior, in NE & SE Heights, by college student, experienced, reasonable rates. Perrine, 293-1429.

Pixie's Performing on Patio At Family/Variety Night Tomorrow

PIXIE THE CLOWN performs her own special magic tomorrow evening at Family/Variety Night in the pool/patio area. Also featured are free swimming from 4 to 8 p.m. and another of those famous BBQ buffets (available from 4:30 on). Pixie-prank entertainment's at 5:30, and cartoons and a Disney movie light up the big-screen TV starting at 6. Pack up the whole family for a cool evening that guarantees a bunch of fun for everybody!

FACING THE MUSIC is a real pleasure when Don Lesmen and crew play those mellow tunes from the 40s and 50s. The group's Big Band sound has everyone swinging and swaying in no time flat — and it's happening tonight, right after the two-for-one dinner special featuring filet mignon or shrimp scampi (your choice of two entrees, \$14.95). Dinner reservations recommended (265-6791).

THE SHARKS ARE CIRCLING (T-Bird card sharks, that is) next Thursday (Aug. 6) and again on Aug. 20. Action both days starts at 10:30 a.m. Come on out for all kinds of card games, with a lot of other free goodies thrown in — refreshments, prizes, and good conversation, just to name a few.

SADDLE UP AND HEAD ON OUT to the C-Club Ranchero next Friday night (Aug. 7) for Western Night. Those good old Poor Boys from Isleta strum their special sagebrush-shuffle tunes from 8:30 p.m. to 12:30 a.m.; ahead of time, sharpen those stomp skills at country/western dance lessons from 7:30 to 8:30. The two-for-one chuck wagon menu includes filet mignon or halibut — just the thing for hungry cowboys (and cowgirls) after a long day on the trail. Call in that dinner reservation — the sooner, the better — so the ranch hands know how many fish and filets to catch.

PLANNING FOR RETIREMENT is the subject of a seminar coming up next Tuesday, Aug. 4, at 5 p.m. in the Eldorado room. Steven Stubbs and Michael DeVincentis of Dean Witter Reynolds discuss IRA rollovers and Dean Witter's new retirement planning tool: the Pre-Retirement Income Management Evaluator (PRIME).

SPARES AND STRIKES SEASON is just around the corner and it's time to get organized, says Ciss Kelly, coordinator of the C-Club adult and youth bowling leagues. The Mixed League (adult) meets on Friday, Aug. 7, in the Eldorado room to elect officers and go over schedules and sites for the 1987-88 season.

The Junior Pros League, for kids seven years old through high-school age, gets together on Tuesday, Aug. 11, at 7 p.m. in the Eldorado room. New and inexperienced bowlers are welcome; nationally certified coaches are ready to get them started on the right track (lane?). Not only will Junior Pros get organized for next season at the Aug. 11 meeting; they'll also receive the trophies they won at the state tournament in May (a bunch, according to Ciss). More info on either league from Ciss at 255-8011.

THE NEXT-TO-LAST pool family night for the summer of '87 happens on Wednesday, Aug. 12, from 6 to 9 p.m. Here's an opportunity to get out of the kitchen and relax in a cool pool — an unbeatable combination, if there ever was one. The snack bar and grill, open all evening, offer treats for everybody: burgers, nachos, ice cream, and whistle-wetters like beer and wine coolers. Regular admission rates: free for pool pass holders, \$1/person for C-Club members without passes, and \$2/person for guests.

ROOTS, ANCESTORS, GENEALOGY: They're all discussion topics when Thunderbirds get together for their monthly meeting on Aug. 10 at 1

p.m. at the south end of the ballroom. Speaker Margaret Windham explores the confusing — and sometimes amusing — events she experienced while tracing her family history. Plan to make a day of it; join your fellow T-Birds for lunch — noonish, suggests Charlie (the honcho) Kaspar. Then stick around for the T-Bird Board meeting right after the program (otherwise, how can you know what those folks are up to?).

IT'S NOT THE SAME OLD SONG AND DANCE when the Freddie Chavez Foundation blasts out its scintillating sambas and challenging cha-chas. Get ready, Latin music lovers! Freddie and the gang return on Friday night, Aug. 14, with their special south-of-the-border music. Prime rib or scallops are the two-for-one choices, and you can dance away the evening from 8 p.m. to midnight. Reserve your space by calling 265-6791.

THE SUNDAY BRUNCH BUNCH has another opportunity to enjoy the finest spread in town on Aug. 16 from 10 a.m. to 2 p.m. The menu features Denver omelets (different from the usual *Albuquerque* omelet), pancakes, baron of beef, fried chicken, turkey, tossed salad, corn O'Brien, hash browns, an assortment of cakes and puddings, and the usual fine accompaniments: salsa, juices, coffee, tea, milk, and a complimentary (and complementary) glass of wine or champagne. All that fantastic food goes for the unbelievably low price of \$5.95 for adults, \$3 for children from 4 to 11, and free for tots under 4. Bring along your membership card and subtract another dollar from the tab (discount limited to \$2/family). Don't miss out; make that reservation right now.

SPEAKING OF BARGAINS, C-Club members can buy discount tickets to a variety of attractions. The Magic Kingdom pass buys you reduced admissions at Disneyland or Disneyworld, and — if you're planning to visit Sea World — there's a discount pass for that too. Movie buffs in the crowd will be happy to learn that big discounts are available on flick admissions at most Albuquerque theatres. Stop in at the Club office and explore the possibilities.

Fun & Games

Biking — Combine fresh air, exercise, and beautiful scenery on Labor Day weekend by joining the 6th Annual Bike Trek for Life and Breath, sponsored by the American Lung Association of New Mexico. The three-day, 200-mile tour supplies pre-Trek training, food, sag wagons, and overnight accommodations. The Trek begins in Albuquerque and continues through the Jemez, Santa Fe, and back to Albuquerque through Madrid, Golden, and Cedar Crest. For more information, contact the American Lung Association at 265-0732.

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More Biking — The East Mountain Bicycle Classic is set to roll Aug. 22 & 23. Events include Heartbreak Hill Road Race and Women Over-the-Hill Tour on Saturday; Sandia Crest Road Race, Citizens' Tour/Race, and Mountain-Bike Time Trial on Sunday. Prizes totaling \$5000 are offered. For more information, contact Rich Vigil on 897-3777.

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Fitness — Get Fit New Mexico (sponsored by HealthNet New Mexico) is looking for a spot in the Guinness Book of Records when it concludes its 10-week program with "New Mexico Gets Fit Day" on Aug. 2 from noon to 4 p.m. at UNM Johnson Center. "The World's Largest Aerobics Class" (scheduled for noon) may draw 3000 participants, which would set a world record for aerobic participation. Other events consist of fitness workshops (including a seminar on running by 1972 Olympic

marathon champion Frank Shorter, "Common Foot Injuries," "Sports Nutrition," "Back Care," and proper walking techniques); displays; and computerized fitness testing. A "Get Fit" dinner is also scheduled for Aug. 1 at the Albuquerque Hilton at 7 p.m. Keynote speaker is Frank Shorter. For more information, call HealthNet at 889-3316.

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Golfing — The SWGA swung and putted at the regulation 9-hole major tourney at Puerto del Sol on July 11. Results are: Flight A: Lucy Gray, first low net; Marijo Hinrichs (3544), second low net, longest drive, and closest to the pin; and Phyl White (5122), fewest putts. Flight B: Pat Neiswander (2523), first low net; Betty Worley (4000), second low net; Betty Turk (4000), low putts and closest to the pin; and Barbara Hilton (DOE/FMD), longest drive.

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Bowling — SANDOE Bowling Association April Bowlers-of-the-Month are: Wayne Yoshimoto (7412), Men's Scratch, 644; Kathy Lucero, Women's Scratch, 589; Leo Bressan (ret.), Men's Handicap, 672; and Frances Baca, Women's Handicap, 630.

May Bowlers-of-the-Month are: Fred Gunckel (2545), Men's Scratch, 556; Trinie Chavez, Women's Scratch, 540; Fidel Perez (7485), Men's Handicap, 607; and Juanita Evans (6510), Women's Handicap, 628.

UP A LAZY RIVER, or on an uncrowded beach is where you'll be if you sign up for one of the trips planned by that ever-efficient C-Club Travel Committee. A sampling:

All Aboard the Cumbres & Toltec Railway on Sept. 26 to view some of the most splendid scenery anywhere — and especially in the fall. Golden aspens are at their peak just about then in the high country between Chama and Antonito (Colo.). You'll make the one-way train trip and catch a bus for the return trip to Albuquerque. The \$50/person cost (\$38 for children 12 and under) covers RT bus fare from the Duke City to the train station, train ticket, a continental breakfast, and bus/choo-choo refreshments. Deposit \$25 to reserve your space; final payment isn't due until Aug. 26.

Aloha Allure draws you to Hawaii from Oct. 30 to Nov. 9 — just about the time when the weather here starts to remind you that winter is just around the corner. Put memories of frigid temperatures behind you as you loll under a palm tree on some secluded beach. This one has it all: stops on three islands (Oahu, Kauai, Maui); deluxe accommodations; a luau feast; all sorts of side tours and other options, depending on your preferences (for example, fabulous dinner shows, or trips to places such as the Polynesian Cultural Center and Fern Grotto). For \$989/person (double) you get RT air fare from Albuquerque, 10 nights' lodging, lei greeting in Oahu, full American breakfast and ground options briefing in Honolulu, the luau, rental car (per couple) on Kauai and Maui, taxes, tips, transfers, and more. Bunk with one more person, and get a price break (triples are \$918). You'll need to move fast on this one; a \$100/person deposit is due by Aug. 1 (tomorrow, in case you don't have a calendar handy). Final balance due by Sept. 15.